

Abstract

- The present invention relates to a process for obtaining mammalian insulin secreting cells in vitro, characterized in that it contains the following steps: a)
- 5 preparation of the mammalian pancreatic tissues by removal of a pancreas, b)
- dissociation of the pancreatic tissues obtained in step (a) into isolated pancreatic cells,
- c) possibly the elimination of the endocrine cells from the pancreatic cells isolated in
- step (b), d) induction of dedifferentiation of the cells isolated in step (b) into ductal
- precursor cells, e) induction of redifferentiation of the ductal precursor cells obtained
- 10 in step (d) into insulin secreting cells. It also concerns the use of the insulin secreting
- cells thus obtained for the preparation of a pharmaceutical composition which can be
- used for the treatment of pancreatic pathologies and particularly diabetes.